

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G02B6/00 G02F1/1335 G02F1/13357

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G02B G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 390 276 A (CHEN ZHAN ET AL) 14 February 1995 (1995-02-14) column 4, line 17 - column 7, line 59; figures 1,2	1-4,6, 9-12,16
Y	EP 1 139 015 A (MITSUBISHI ELECTRIC CORP.) 4 October 2001 (2001-10-04) paragraph '0092! - paragraph '0096!; figures 32-35,37	1-4,6, 9-12,16
A	US 6 222 598 B1 (HIYAMA IKUO ET AL) 24 April 2001 (2001-04-24) column 14, line 30 - line 43; figures 12,13,16	1,2
A	US 5 321 789 A (USUI MASAHIRO ET AL) 14 June 1994 (1994-06-14) column 8, line 37 - column 10, line 27	1,2
		-/-



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- "P" document published prior to the International filing date but later than the priority date claimed

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

28 June 2004

Date of mailing of the international search report

05/07/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 772 305 A (ISHIKAWA TSUYOSHI ET AL) 30 June 1998 (1998-06-30) column 2, line 45 – column 3, line 24; figures 3,4 -----	10,16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/000660

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5390276	A	14-02-1995	EP JP US WO	0672263 A1 6202107 A 5359691 A 9409395 A1	20-09-1995 22-07-1994 25-10-1994 28-04-1994
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US 5772305	A	30-06-1998	NONE		